BEFARATER

ACTA MORPHOLOGICA

TOMUS L FASCICULUS L

Incl

ANNUAL MEETING OF HUNGARIAN PATHOLOGISTS AND ANATOMISTS

1950, in Budapost

VI. DIVERSE REPORTS AND LECTURES

Cytologic changes in the setionic-andethelial function of the thytoms:

S The (Department of Histology and Embryology of the University in Budgest.)

The cells in a premisent culture of 1—3 weeks miller a considerable transformation? The cells in a premisent culture of 1—3 weeks miller a considerable transformation? The presence on preinting areas, whereas provide of connective these and opticable culturates, is the curviving outbooks a formation of Heront's — appearing was observed. The individual facts the optical installer, epithelial cells is considered to mescrythere. The individual by a nearly complete miteria, which is sounding that the original cell. In the mescry which is sounding that the original cell. In the mescry which is sounding that the original cell. In the mescry with a quite cell is within the preception of the opticallel cell — without any preception the opticallel cell is within the preception of the opticallel cell is without any preception described order in the ligament the opticalistic of the medical resolution of the precion — a thymneryte is formed which absorbes often in the ligament the optical of the cells transformation was recorded microshumanapsiphicals. The optical of transformation was recorded microshumanapsiphicals. The optical of transformation was recorded microshumanapsiphicals. The optical of transformation was recorded microshumanapsiphicals.

erresignations of the cell-physiology of the Star in connection with the cethodisaudiothelial system (with microstructurapsylvini demonstration): J. Validas. (Department of Microscy and Embrysings of the University in Sudayant.)

In these enteres the aphiculal members derivating from five passarbyes, (\$665 passars) discretate on the 18th —18th day. If Sadin int then in called to the original medium is phagasyted not only by messaging, but by the epithelial calls tan. Bytchelial calls, account with India int particles, undergo a dividen in a similar vay as assumed calls.

A digit presentage of lymphosytes also expectes finds into in lymphosytes the lading

A digit providing of symptonyon dis explain high his in branchings to his high his selection in from all come particles to the excluse and draw and introduction to the excluse of the ext.

In these characters of high time are explained as at the exclusion of th

In New State cultures of helf-time ret embryes, on the 16g.—16g day (Mith passings) the cells of the State-intel epithelial membrane transform to cells of connective these types. In the latter, a fire were observed being from of model which are formed in all pushelikly by expension of protophore. In come reduced qualitation of the medicalton cells, analogation of the protophore and formation of a medical was seen. Hereby it is justified to conclude that is the function of contain cell types and in cell tempolarations a similar process, may take that

The Artification of redicastive lead soft in the cognes of the estimate-emplohelial system : T. Borke, L. Kestin and G. Guerre, (Department of Metalogy and Medicy, elegy of the University in Decisyost and The Physical Institute of the University in Medicasts.).

Lend sulfide has been traced by sid of Thorism B; a collect has been proposed, stabilized by gent-enable. The distribution of this collect in the subbit's expected has been examined including the elimination of it from strendsting bland other introveness administration. The different expens were destroyed in a bussid state; water contents have been delephoned; the radioactivity of the residuals has been measured by a Colpus—Buller counter.

Computed for 100 g weight of the fresh, bumid expans, storage is most mashed in the galeen, bean matter, liver and kidney. 27 per cent of 2 mg/kg lead million was stored in the liver. Tests were made 2 hours after administering the tracer leaf-ions. There are some discussions

* Continuency of secure in Number 2

between the elimination-curves of collect from the blood. The divergence of the curves was much smaller when the quantity of lead in 1 mi blood has not been recorded as the function of time, but the blood-lead-concentration was determined by interposition, 5 minutes after the introveness administration. Using this quantity as the basis every other determination result dependening on time was expressed in a percentage of this value. The divergence of elimination curves has been discussed; the distribution of elimination is regarded as the result of appears.

Californ on Combris phosphotoro-reaction, relying upon study with all of tracers: S. Pérshay and S. Sushy. (Department of Histology and Embryology of the

The efficient phosphotone reaction as described by Gindri and Tokenstes has flow meanined using a self-deviced method with special regard to the loss of activity during embedding into passifies and other passactional procedures, (described by T. Burks, S. Saniov, Z. Pinchely, L. Rotte, Annual Hosting of the Hung. Biologic, Soc., 1950 Kiefel, Ovverted, 2. No. 1, 1951. Burg.): by use of a tensor leaf-aircrate, the convenies activity of microscopic speciments can

Remainstance derived destruction of the greatest part (up to 95 per cent.) of the existing Law of congruents articly occurs readely during imbilition of the specimens with molton possibles at \$0°C. Which the first 34 hours, the ensymmetre articly is not severely influenced by the interval horsess during the fractions, only accessed by the interval horsess during a granted interference with conymitate activity. By handling the questions a resolution had to be painted interference delivering of further less to ensymmetric activity or after formation of the

Present study serveds that is every phase of histochemical methods some first of manuscript many come. Hereby contradictory findings recorder in literature are explisited.

Banyanathe activity of invalidated timeses: E. Bir, J. Bir and E. Visteritti-

The office of X and genome ways has been exemined in living stonen. Using well-known blatechemical resortion, the conymects artivity in human and animal tensors and in fifteen of getomb lifest by teach-keep-invalidations, has been investigated. The present report fight with discuss of phosphetene activity in the tissues of animals lifted by teach-body-invalidation. It the first expenditures to the very watherlining vibration C: because in office animals upon X my invalidation a constitutible animal of vitamin C is converted, which combs a decrease of phosphetene-activity, Rate ware invalidated in a simple or in fractional decrease of phosphetene-activity, Rate ware invalidated in a simple or in fractional decrease appears to the life. On the invalidate action activity is not irreduced. When the invalidate actions activity and not prevent proposed in an identical decrease, the centred was lifted. Ongoing of both ways consemporations of the invalidation many sates from a proposed phosphetene activity has been found. The most compliment fielding in the immunol phosphetene activity of the percentryme in the recovery phosphetene activity in the control willing in quantity, in the broadcied activities in desired-account, in the broadcied activities and in despendent of break and various of the titlifies in quantity and described activity in the account lifting, each Reposition of described in a finite conservery, high activity in the account lifting, each Reposition, conservery activities leafer as an expension of Reposition, conservery to be transferred activities to depend activities of described in a conservery later to depend activities.

The effective phosphatese esticity in sympathetic gaugitens and its effectives during programmy: It Arm and L. Hesten (Department of Matchey and Restrying) of the Department in Redment and The Physical Institute of the University in Defection.

Phisphoton activity and its absentions were constant blatechemically in the optionducto gaughton in eats, subblis, galore pip (using the Gandri---Tubernotes method) of the on by demakrative histochemical meson (Burks, Soday, Picalaly, Korsto: In the paths.) The most intensive reaction is induced by interestical and capoular pile calls of the progress. and by interstitial filecs. The reaction is apparently more marked in the peripherial parts of the cells where there are also accumulated Viol granules. A positive reaction is given furthermore by the nuclear membrane, the nucleus and by some chromatin fragments in the nucleus. Quantitative histochemical tests, based on the use of a tracer, revealed a higher concentration of the ensure in the superior corvical gaughton than in the inferior or cooled. This is probably due to a structural difference. During prognancy an increase of fermionative activity committees the also to come structural alterations, i. a. proliferation of the interstitions, containing much ensure.

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Experimental studies for alterations of the eastnophilic count in circulating blands.

Little. (Department of Pathological Anatomy and Histology of the Laiversity in Phys.)

In experiments on subbits, after administration of histories a marked escingbills upon stated. Similarly, consistephills is induced by drugs causing excitation of the vegetative necessis system (as acetylcholine, supercomine), by liberating histories. On the other hand, by application of paralysants of the vegetative system the interess of the escingbills count, histories by acetylcholine and supercenies, has to be blooked. Extract of the advand cortex constraints escingbills of histories and acetylcholine, yet has no offect if it is induced by supercenies. By administration and extractions of artifictamines escingabilis due to histories and to estimalants of the vegetative necessis system is blocked. Giving advanal cortex extract in se, a drup in the contemplate count estimal walls antihistories count as change whatever. In subbits sufficing from intentiond walls, the necessis philosophilis, in adding a drup of the count to enhanced values occurs, while in checked by previous administration of advand cortex extract. Encionphilis due to distribute the experted experiments that the accompbilite count of the distribute philos is regulated pulmostly by the blood histories level, and indirectly by the activity of the describe in the advand cortex. There is a close connection between the activity of the latter, the pill and its absention in blobs, activity of the connection between activity of the latter, the pill and its absention in blobs, activity of the connection between the structure level and activity of the advanced material activity of the content of activity to hypothesessis at activity of the advanced and the count of activities of activity of the advanced context, the histories level is increased and the count of activity of the activity of the count of activities of activity of the advanced count of activities of activity of the activity of the count of activity of the activity of the count of activity of the activity of the count of activity of the activity of the activity of the activity of the activi

A contribution to the functional histology of mast-cells: L. Hereth. (Deparment of Histology and Embryology of the University in Budgest.)

Some data about hapania, recorded to Mochanical Mitisters, was used as a Militister of the particular of most colle, via.

- I, the hoperin-tobaldine complex forms a metadiremente deposit, implicible in water
- 2. haparin acts on an imbiblior of tryptone in blood severa;
- the meta-horantic deposit of hoperin-tehnishes to subsiding on the action of historiffs.
 tehnishes regains its original colour.

These reactions were used in historheaded specurities for those specimens.

In dark field microscopy of notive specimens, in the most cells no grandation can be seen. In specimens stained with tehnidise, the grandes appear so disting corporate. They are importantly artifacts due to the action of tehnidise, i. e. on introcellular descrip-

Specimens of connective tierce membranes were expected to the extins of a 0,00 per eggs trypein solution. After digesting through 30 minutes, areas free of most cells did not each with telediline, while regions risk in most cells did not been their ability to bind telediline. With to therefore for the most cells containing some authoryptic galaciple.

By parting a few gammas of histonian into the visinity of most cells stained with teledillan, deceleration was observed within a few assembs. This is due to the less of shiftsy to hind teledillan, to the granules of the most cells.

The results of the expected three supertranses engraphy prove that must cells contrib

The Colormotte: J. Milydn. (Bepartment of Ameterny of the University in Budapest.)

The idea of distinguishing bosons from animal boson by more structural differences was suggested by B. Konyeros and M. Hogyi, in connection with firencic medical problems. This idea has a substantial importance, not only for forwards medicine but also for vanishables disciplines. While starting with the investigations it become obvious that archeology and

poleontology have the same requirement concerning microscopical research into bone structure as forensic medicine. While research progressed, other disciplines to one interested in the study. Outcommide are discussed actually in order to explain these connections.

The esteemeds are vascular channels, with proper walls formerly not recognised as independent units. They are common in the periodeal so well in the endustrial part of the base. This type shows considerable differences in comparison to have sum canals (noteon), with regard to locality of formation, rate disposition, confluence and function. This type of channels is denominated extensed.

The author showed in a series of transvene sections simple extremelds and projected confluent extremelds. The author referred to the disciplines interested in the microscopical prescriptions of the structure of the home.

The simple extensive and their confluent forms are of substantial importance for examples the statingy. Confluent forms develop during the evolution of the different races, the philogony is interested in those studies too. By entagements weres the importance of the structures for untegenesis was complicated. General scalegy is concerned in parallelism, cum- and divergencies, functions of the ergons and their disferentians, in a similar respect, bose morbitaism is also tenched. A special importance must be efficiented to extensive in home pathology with regard to their investigate dissolution or absence. There are still many disciplines integrated in these researches.

The study of estentials has up to trou practical eignificance only in forest modulus and to easy of a estimable value in other disriplines.

The activity of the periodena and experimental influences on these. 3. Rempeter. (Department of Asstony and Molegy of the Emveralty in Debetes).

The periodicum of growing banes is in an active stage, generally in an appeartional activity. The growth of home in a grown-up argention is excepteded. At this age the periodicum afts in functional rebuilding of the homes on the enternal surface. In cases of increased demand the periodicum produces home: activity-hypertrophy; resting the periodicum reserbs the home: inactivityatsuphy.

Living under uniform physical stress, extended areas of the periosteum are in a relative resting stage. In comparison with this state, the periosteum becomes activated by increased functional stress as well as by lasting rest. At increased functional stress we charter a building activity with actorbiasts building the home, and at lasting rest we find a resulting activity with mubinumlasted esteechasts reserving the home.

By inactivating a hind log of dag (by plaster droning, he nerve dissection etc.); the destaurant sould be easily removed from the tibia, displaying at its innermentar face interested plant cells. Contemporaneously on the controlatoral tibia, receiving more stress than formarily, the periodecam adhered founly to the hone surface and microscopically established extinctly was to be seen. One must become aware of the fact that the periodecam not only hullds the bone, but even received.

As segards the prestical perspective of the experiments: there is a possibility to estimate the periodoses. If prelastrum is grafted in order to produce hone, one must be caroful to use a periodoses which is in the stage of building activity.

Connections between the fat contents of cartilege cells and ossification: 1. Nage, Cp. Rivay and B. Collik. (Department of Anatomy, Histology and Embryology of the University in Second.)

Authors stated by previous investigations that in early stages of embryonal development more fat is contained in the early colsifying certilages than in the later calcifyings According to their researches about the conflication centre, phosphatides are to be found. Presently their distribution and P distribution in the certilage has been examined, by a medification of the Fishe-Subarray method for microscopic mariners.

Around the entitlestion centres, in cartilage cells phospholipoid granule can be demonstrated first of all in these areas where columnar arrangement of the reliastanted. By measuring the P contents of other-alcohol extracts of different cartilages, it was stated that the calcifying cartilages contain 40 per cent more P than noncalcifyings, being indicative of an identical proportion of the phosphatide contents of two kinds of cartilages.

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As the fat content of the cartilage cells is immediately adjacent to the confications centre it seems probable that fats and phosphoripoids are used in preparing ossification. It seems furthermore probable that by phosphatides an increase in phosphatise activity is induced, as pointed out by Weil and Russel.

The estergenine, soluble in alreadol, produced in 1945 by Lacrotz, is to all probability identical with one of the demonstrated liquids or with their combination.

Studies on the antidiaretic substance of the hypothelassus and pituliary K. Kevacs and D. Berbrach. (Department of Pathelagical Anatomy and Histology of the University in Suspel.)

Hological activity of hypothalamus extracts was examined repeatedly, yet the results were quite different. Relying upon experiments in rate, the authors stated a marked extidinates affect of an aqueous saline extract. Biologically, this autidinates substance could not be expected from the antidiuretic pituitary hormone. The two substances are etcomed as identical, Whether the hypothalamus or transported from the pituitary could not be exactly determined.

By administering hypertense salt solutions, by the sizess receion due to formalitable and after advantagement, the production of the antidiments substance of the hyperhyde and hypetholomus is markedly reduced. A reduction in the shock stage of the alarm reaction is indicative of participation of the neurohypephyseal-hypetholomic system — healds the autosian labe—in defence against non-specific damages.

Present studies support the view that in the hypetholomus there is a storage of humans.

Present studies support the view that in the hypothalamus there is a stronge of humans which are easily mobilised when needed. Buildes the apural and humanal regulative functions of the hypothalamus, a further regulating function is stressed: the function of the neurologue physic may be promoted by liberating its own active principle. The hypothalamus, thus, plays a double role in water-metabolism: a regulating as well as an auxiliary one by mobilising to hormone-depot.

On to the pathology of hypopituitarism : J. Grass and M. Messayi.
(Department of Pathological Anotomy and Histology of the University of Seagod.)

Description of 6 autopoiss with hypopituitariem.

- 1. Infantile male dwarf of 39 years. The pituitary is totally destroyed by a large, eputheraniopharyngioma:
- 2. Boy of 14 with symptoms of dystrophic adipassgentialis. A moduliablestoms on the right side of the third contrible caused by compensing the Sylvien aquadant hydrocopholes internas and hereby the pituitary of 0,57 g weight was asversly compensed.
- 3. Infantile male dwarf of 31 with severe atrophy of the pituitary (weight 0,36 g), due o a cranispharyngioma.
- Emeriated female of 19 years, with a dinical diagnosis of diabetes ineighbos.
 By a mescurephalic pinealousa the hypothelames was nearly totally destroyed, without having caused any direct demage to the pituitary that is of 0,46 g weight.
- 5. Fomely of 49, with acromogaly. A systimily degenerated malignant costnephilic advances a total destruction of the gland.
- 6. Male of 67 with hypopituitary symptoms. The gland was nearly totally destroyed by a necrotic and partly cabified craniopharyngioms.

In two cases dwarfism and minuteness of the inner organs point to disturbance in growth hormone production. The low weight and histological structure of the thyroid in every once show lack of its function and of the thyrotrope pituitary principle. Hypeglasis of the geneda and reduced size of the sexual organs, lack of secondary sex characters are indicative of lack of the gonadotropic pituitary hormone and of a consecutive functional disturbance in the incretoric activity of the geneda. In the advanal cortex the fasciculate and reticular sense are reduced in size while the glemorular sense is of normal thickness. This confirms former experimental observations on the morphological and functional duality of the advanal cortex.

The Longerhous-inlets, the advenal medulia and the parathyroid glands appear not to be affected. High level emociation was not observed in any case, thus eacheny cannot be regarded as the leading symptom in hypogenitations. The authors point out that it is more correct to speak about the decreased activity of the pituitary-hypothalamic system instead of hypoglandarium since there is some damage mostly at both sites of this functionally unitary system.

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Fetal chandrudystraghy t 5. Brain and M. Erdélyi. (City-Hospital of Péterfy Sánder-Street, Budapent.)

Pregnancy III of a 29 years old woman Anamnestically no developmental anomaly could be stated either in the offspring, or an ancestry. Delivery in a complete double foot presentation of a mature, malformed female baby with chondrodystrophy, after discharge of approximately 2 liters of amniotic fluid, the baby remained; alive for 26 minutes. The half alcharge the main inner organs, endocrines have been thoroughly investigated

Weight 3000 g, length 36 cm. cranial circumference 37 cm. signs of a high-grade missromedla. Arms and logs are eddly short and stout, with wrinkled integrament. Pronounced "units a utilized". Deep impression of the mass have and huled forehead. The umbilical trunk is nature to the symphosis than normally. Roentgomgram shows, in the disphyses of the long tubular human a thick and dense certical layer. The capalyses are straight and mostly well separated from the disphyses. Shortness of the tubular hones is obvious from the 4.5 cm length of the lift humanus, 4 cm length of the loft femor and 3,8 cm length of the left tibin. Un the impressible of the ath-cartilage header is a marked, gariand-like thickening portion. Hastologically, the light ef calamant arrangement of the cartilage solls and defective nots of prosparative calculations must be stream? Primary merow hales intrude into the calculated cartilage forming hastological fladings, capacially the periodical inverse between apically deplaces. In the vertebras hone formation of the periodical stains with marrow channels of the cartilages. The formula because the dides, similarly the connection of calcified fool in some cartilages. The formula occipitale magnum and the vertebral canal of the vertebras of markedly necessary. The substances a dispose tions of calcified fool in these capans display sizes of cyanosis, in the liver fatty degeneration, fetal homotopatate. Me-markedly and parathypoths. A prosessional hydrocephales. No pathologic alterations of the thyman, with substances and parathypoths. A prosessional lack of cosinophiles. The pituitary is of community degeneration of the channel data without displaying any pathologic structural irregularity. (Iv arise without displaying any pathologic structural irregularity. (Iv arise without displaying any pathologic structural irregularity. (Iv arise without displaying any pathologic structural irregularity.

In the development of the described hypoplastic chandredystrophic child the marked hydrometer seems to support the markenical theory of Murk Janen; however, authors are inclined solying upon the demonstrated dides, to regard the quantitative and primarily qualitative disturbance of the preferentive cartilege that plays an important role in enimetral coefficients as the most consulted feature of chandredystrophy. The question was not chancel, whether external or internal eticlogic feature play a role herein.

<u> Maranand influences co timpo reactions : P. Endre (Editi Anne Hospital, Bulayest.</u>

In 22 albino mise autotronophuntations of the eventer were performed, in order to study the influence of hormouse upon the grafts. Free grafting into the subsettle was unsuscential. Ectoron, two phases in transplantation were made: in the first phase on an uterine style the eventy was put into the subsettle, and in a second operation the uterine connection was interpended. Autotronophuntations of this blad were reconstal.

By administrating union of programme, increased due of the fulficles, formation of empare inter- and differs butchelession of the utroms was induced. This reaction is employed by name-harmonal compositions.

On the helphs cells of the utenine mineres membrane : K. Fashes. (Cd) Deal. Hamital. Bederect.)

Cyclic menetraal changes of the utseine murous membrane are the best examples of a

The influence of increases upon the cyclic changes in the uterus is beyond death. They use of action in nevertheless, not yet chared. They are engaged not to act incondinally, but by the mediation of endouties calls within the influenced organ. In the uterine messess impleated to highe calls are regarded as incalled endocrine mediatess. Their determination as highe calls was engaged by Payers, who considers those cells as parts of the diffuse optibility endoubles eagen. Later Peyerser oursessed the epinion, that bright cells are of a special appearance of flagsifical optibilisms, and there are connections between their terminal variations and the flagsifical cycle. In cyclic and pulypoin hyperplacy an incounsed number of height cells was found.

On account of his investigations author realised the indentity of these bright cells wish those described formerly by Mihalik as compensatory cells. Those were regarded by Mihalik as closely connected with formation of flagelles. Mihalik's theory was confirmed by Florie tax. Improvedly these cells display differentiation into two directions; partly into a flagellated, and in an other part into a secretory c ithelium. Though there is no proof whatever of the increasery activity of these cells, there is nevertheless some connection between these cells and harmonis activities, and their numerical variations are closely connected with the hormonal activity of the overses. The final conclusion is that numerical variation of these cells is a reliable moughoughout adjusted constants of the harmonisty regulated dynamic equilibrium of the uterine museum management. An increased immber is indicative of falligh harmonis generated.

Contributions to the neuro-histopathology of hypertony, L. The patho-histology of sympathotic ganglions in antopsy-cases t Gr. Seds. (See Respiral of Montal December Limitated Statement.)

From preliminary investigations the following constitutions are drawn.

- 1. The usual histological methods (like staining with homotopylin-seein, von Girenn's stain, Nicel and Mallory stains) are less estable for real investigations than effect improgramment and colly the stage of the nearestytes in clarified by the formers, while through the latter the nearestytes the distribution are self-discountly.
- 2. In hispey material sympathetic ganglious removed in actuald hypertonius the morphological alterations due to the hypertonia are partly overshadoved by percepted changes, induced by mechanical and channel transmission of the agree calls due to the agreement procedure.
 - Post mortem changes hagin comparatively into in symphethetic ganglions, thus past ertem material may be used within 6—12, eventually 16 hours.

Cincy the Melohavsky—Green—Scholine alliver imprograntion, in sympathotic ganglians of parsons decreased in hypertony, averse and observableful changes were french, dealingly in Medical Megilosidal (1917) and Tulubifore (1904). The danges in certain ganglia vision of a different degree. In the case of nephrocal-role, andignous bypartonia the most averse changes were found in the ganglians regional to the lithrops, without pressure decreased in operatory, the ganglians of the sympathotic track displayed must arrow pathologic absencians.

In the sympoticitie gaugetic problemble and depressible changes were descript. Problemative changes are: increased targer of the cells, increased physicatelias, bypomyrap-phills of the processes develving later on the cells, bypomyraphy and bypomylasy of the reminentation. Depresentive changes: Destructions of the floor and—in later stages— commit partitions, neutralysis by expender and interesticit cells, gashed decay of the neutrosymbolish final neurolysis. In two specimens, regenerative changes were interes in sympothetic panglions.

The changes of the sympathetic graphets are regarded by the eather as the results of chance extendition origing in the cantod mercitic system. A panel of this episten is the poling in a potent, apassed litherarily two years paler to decreasesabling to disclining a distributed anothed in the castless graphet by apoplary. The remaining cells of the castless graphets litherated from in influence of pathologic excitations by the operation, showed a nearly mercual appearance that is the other symphototic gaughtens arrows changes were found.

The final conclusion of the author is, that the ayequathetic system does not consist of falls of a rigid weshesqualds from and structure, weathered by pathological contestions on the insteary due to those auditations it is a steadily changing system of norms only, by change pathologic excitations interes manufactured absentions are induced.

egeneration of the school center: Co. Holling and L. Harmonia. (Reportment of Austria) and Holly of the Subrandry in Delegan.)

After unflatored operative injury to the educat certain in suts, extends were combleted. Afterward intervals. Michelegical executación of the injured advancia.

Plest signs of regeneration appear on 6th ... \$40 day after the injury. Begansvaten starts from the capsule. This has formerly also been stated. Some authors regard indifferent, flowblast. The calls of the capsule as the demonsts responsible for the production of new carding original and others). A similar importance is attributed by Bademan to the

soubcapsular biastemas, forming the innermost layer of the capsule According to the present study both views may be accepted, thus, the two theories are combined. A regenerative activity can also be perceived to the gluineralous some, while the fasciculate one is not connected. Without having made special studies, authors are apt to believe that from the non-specific granulation tissues following injury cortical cells are formed through action of cortical hormones. This would mean a chemically directed cell differentiation the experimental findings of Charcemont with histocytes.

Further progress of regeneration depends on the extent of the injured region. In once of small injuries to the cortex (as e. g. after removal of the glomernious zone), the regunitate covers the defect totally, while in injuries extending over more lavers during observation posteds, some defect remains. 50 days after injury, there is a defect in comparison with the state before the operation covered with freshly formed capsula subjectantly a fleshly formed glomernious zone is found.

In the medular substance of the injured indeenels, formations were seen, morphologically duedy resembling to cartical relie. Regarding their origin, in our opinion we have to deal with transformation due to need of phospotion; cells, found everywhere in the animals organism. The reduced function of the injured cortex may be compensated.

Regenerative phonomena round posipherical nerve trunks, transplanted into the firms: G. Suthely. (Depictment of Austony, hist. logs and Embryology of the University in Pics.)

No manuscript received.

Regressration experiments with grading peripherical nerve trunks into the heads a R. Wandy. (Department of Austony, Histology and Embryology of the University in Pin.) No manuscript received.

Quantitative evaluation of wound healing: I. Bivings and Gy. Gydry. (Department of Pathological Anatomy and Histology of the University in Debrecon.)

As there is no proper test known in evaluation of the process of wound healing, our aim was to establish a suitable test. This hind of test is of practical importance in quantitative evaluation of different drugs of Filatov extract and of karyoclastic compounds used for wound treatment.

The skin on the back of alkino rate was shoved and with an interval of 1 cm two streams wounds of 1 cm² surface were inflicted. The surface was measured on the 7th day and the time required for bealing was recorded. The crust covering the wound is shed usually on the 5—8th day, interes a new one is forming. This process sometime recture. As long the wound is not sovered by a crust, surface measurements are made.

This method was used on 200 wounds. The surface amounts in average to 22,7—23,2 sq. mm. in groups of 60 animals on the 7th day. Inspite of close vicinity of averages, a distribution of the values in single animals between 15 and 35 sq. mm. was observed. The sigms of the average value a amounts to + 3,3 sq. mm. Thus, the wound healing has to display in case of any most a difference of most than 14 per cout, on the 7th day, from the average values given above, in order to attribute a significance to the change.

Regarding the time required for complete healing, the time values displayed a range between 13 and 20 days, with a mean of 16.7 days, and a sigma of 0.7 days. Differences of more than 6 per cent are thus significant.

Some observations on the quantitative evaluation of the regeneration of raissains: In Mobilegry. (Department of Pathological Anatomy and Histology of the Iniversity in Debrecon.)

investigating the regeneration of the skin on rat, some concrete problems had to be salved via how for conclusions concerning time required for healing, are justified to be drawn from the qualitative appearance and in what way the crust is formed and also which changes it undergoes.

changes it undergoes.

These problems were studied in 129 albino rats, inflicting wounds with a circular trophine of 1 ag. cm surface.

Healing starts with our costs of the borders. In this necrotic part leukness is inhitration burs and it is berely demonstated, 12 hours after having equaed the wound, a slight thickening the epithelium is observable and the opithelium starts to proliferate beneath the crust On is second day formation of new connective tissue starts focally being closely connected with onheutaneous adoptors tissue and the subcutaneous capillaries. On the 7th day, in the fresh unmistion tissue some years display a vertical course, characteristical to this hooling time.

In the formation of the crust, the initial burder necross, proliferation of the muscular ad adaptive tissue play also a role. In well adhering crusts a marked frontier appears between a crust and fresh granulations, though some superficial necross is always to be seen in the musculations. When the trust is pushed off, the surface of granulation tissue displays necrostic phenomena, a disintegration of structure and a uniformisation of the fibers. If shedding a crust lasts somewhat longer, a new one is formed, containing vessels, decayed fibers and ill crumbs. In strongly adhering crusts, epithelium proliferates in cloumns consisting of 1—2 plants layers, while in crusts not choosy adhering, epithelium does not proliferate further, lowever, differentition starts in the formerly proliferated spithelial parts hornification occurs indentally with previous production of heratohyaline granules.

The effectes of prolonged and administration of taunic add in rate: Solary. (Department of Pathological Anatomy and Histology of the University in Sasged

Changes in the liver due to prolonged oral administration of tannic acid and alcohol, changes produced both by tannic acid an alcohol tagether were examined in rate.

57 albino rats, males and females, weight ranging from 100 - 250 gm were used. They are divided into three groups, fed mixed diet supplemented per groups daily 50 gm, found hence. Animals of the first group were treated with 4 eem aqueous tennie acid solution distincted percently in 1 - 5 per cent gradually increased concentration. Animals of the second soup were given an alcoholic tannic acid solution; concentration of tannic acid being angimented — 6 per cent while of the alcohol gradually to 10—30 per cent. The third group was administrated mostly alcohol in 10—30 per cent concentration. Treatments were made daily, interrupted, a shorter intervals. The animals obtained 8 - 25 treatments during 391 days of the experiment.

In the liver of the animals treated with aqueous tanner acid solution at the beginning slight series hapatite, later some attractural changes appeared. At early stage, in the ros of some of the animals extensive associated necroses were associated by a marked ageneration. Later the increase of the reticulum occurred, Still later in the liver of two animals, and no the 122 nd and 13 ist day rosp. of the treatment, formation of pseudosomis, i. e. a circlesticance of the hepatic structure was observed. In those animals the liver displayed also masses—mically a finely diffuse granulated appearance.

Changes in the liver of the animals treated with alcoholic tannic said solution were similar, it less marked. Extensive necroses were only once observed, total distances of the hopotic ructure, however, easied in no case he noticed. Alcoholitzelf falled to cause any damage to

From these experiments may be stated that the prolonged person administration of tample id resorbed from the gastro intestinal tract causes typical changes in the liver of albino rate, but changes are similar to those caused by parenteral administration of tample acid and to prompt stage of the Lacance carriosis in man. Contemporareous administration of aloshed in met seem to promote the circhagonic effect of tampe acid.

Contribution to the protection of neute hopototoxic office of tamale neid. Kovice (Department of Pathological Anatomy and Histology of the University in Second.)

The question was examined in which way the hepatotoxic and sharming affects of tanale bid can be influenced dictationally, hurmonally and otherwise. Rats received tanale acid in LD 50 mage and they endeavoured to influence its tonic effect by administering contemporaneously ethionine, vitamin (. desexy-corticosteronacetate, Törő's Resector and high cassin dist, king in consideration the sex of the experimental animals as well as the taffacace of sexual

It was found that methionine, desoxycorticosteronacetate, vitamin C and Tör5's Resoctor b not influence in any way the survival of animals, nor the hepatic changes due to tannic acid liministering them contemporaneously. Male animals seemed to be more susceptible to their design of tannic acid especially in the first period of intoxication than the females.

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On the other hand weight differences of the inner organs and histological changes due to tomair acid were not influenced by the sex of the animals.

Rate fed a high casein diet survived longer than those fed a low casein one. The dist influenced the regenerative processes following acinocontral liver necroses produced by tannic acid, as the regeneration of the liver parenchyma appeared more marked in the animals fud the high casein diet. Such a high casein diet has a part also in the tannic acid stress, 1, 2, the hyportophy of the adventals of animals kept as this diet is more striking, the weight descusse of the thymns is more considerable of those kept as low casein diet.

From the results obtained it may be concluded, that there are two responsible fasters for the relative protective effect of the high carein diet in tannic acid poissoning: a discet fiver-protective effect and an increase in the activity of the hypophyses-advancements system promoting defence against non-specific damage.

The autibiotic effect of a microorganism isolated from paprika (Capaleum annum L.) on Gram negative and positive bacteria: J. Karles. (Depostment of Pothological Austomy and Histology of the University in Pées.)

The strain isolated from paprika produces is an effective antibiotic, displaying with all of the agar-cup method a protective some of 20—22 mm against Salmanella typhi typhi markets. Planner X 4, Stephylosoccus sureus, Straptococcus and Paramehacillus.

The antifictic cuerts no touic effects in mice and guinea-pigs. Chemical research on this agent, being crystalliced in three typical forms, is further conducted.

Plasmostilidar acapinsm in the horse: Gy. Stlyl. (Faculty of Veterinary Malfalgo Budapest.)

In a barce of 21 years to be sloughtered, a acoplasm of a man's head's size was seen on the left side adjacent to the neck-band. The board-bard parts of the neoplasm consisted of a dense mass of protein crystals democrated by dense fibrous connective tions; the classic parts, forming one lifth of the tumour mass, were a plasmosoficier tumour (entramedalism) plasmosytemes). There was no apportunity to examine the biase marrow reporting the presented of intramedalismy plasmosytemes. Among the plasmosofic, forming the neoplasm, at came of intramedalismy plasmosytemes. Among the plasmosofic, forming the neoplasm, at came that pin-like and priramidal crystals were seen. The tumour grow infiltratively into the adjacent massles and into the neck-band. The processaler lymph-nede was extremely calenged and beardhard. Its lymphoid substance could be recognised in some inits, but instead of lymphoid substance could be recognised in some inits, but instead of lymphoid classosts plasmo-cells were seen. In the other parts, large areas were f. Bod with arguing tenses, instead of lymphoid tions. Faci of a par's-out's size, consisting of protein crystals, convended by a theory connective tions layer, were found in the liver, in the hugh, on the please, in the visuality of the primary tensor on the neck, between the massles and in

The protein crystals were partly nordle-bke, partly pricalibe in shape with a dishbarm of up to 60 mikm. The inter showed regular sexangular cross sections. They were stained with section (gate red), with van Giesen's stain (arange), with Weigert's fibrin-stain (dash-bhas). Xambapertein and Illian's reaction was positive. Digestion in hydrochloric acid-papells has been demonstrated. The crystale display furthermore intensive staining with composed, with formalized throwing any other reaction of amyloid. The crystal masses in the lung, fixed with formalized years expected mechanically from the surroundings, then chemically analysed; they contained \$3,15 per cent humility, 66,85 per cent residues. The inter contains 0,92 per cent ethella enterets (fipulds) and 11,45 per cent. nitragen.

The postein crystals which were demonstrated in the nesh tumour and in the difficult engans, are considered by author as products of the plasmacyteme-cells, as a kind of the pathologic greateles, parapreteins of Aprils, in agreement with data of literature. Similar crystals were destined in human myelema (plasmacyteme), among others by Afrikasoff and Walff. Based upon the present observations it could not be decided whether the demorated fori in the difficult engans, enclosed by dense connective tissue, were formed by deposition of parapreteins producible by primary tumour or also by formations of plasmace-balar growths existing previously in these sites.

The effect of channels collaborate intentruction on boungroum and bone marrows ... Moths and A. Haraust (Department of Pathological Austrony and Electricy of the University in Debress...)

In albino rate by a single lethol ducto an acute, and by superted sublethal ducto a chrough polichieta intensection was industed. Homograms and bean moreow of 34 animals in acute, gild of 48 in chronic intensection were exemined. 30 animals corved as controls, and in auch assignal to be tested the homotrologic status has been determined before the experiment.

70 - 80 per cont of the total white blood cell counts consists of lymphosytes. One due of culcicien, offices a deep in the leakeryte count. The in mainly due to reduction in matthe of granularytes. The businesses istage is followed by a marked leakerytesis, due mainly to perceased mumber of cells belonging to the myelaid autos. There is a dight diffe toward the hill a the homogram Less marked and less characteristical changes cours in the lymbosyte counts a higher answer in to be observed.

In the leakopenic stage, mature leakoppins are knowing the base magnes to supplicated facayed leakoppins. In the leakopposite stage there is an increase of javous supplied facility in the bone marrow: stypical mitroes are often sum, followed by pylanous, and facility a topic language to the leakoppins is observed also.

In obvious intextentions the behaviour of homograps and home motion on during to prote alterations. The main difference is the protected course, especially of the habopages tage which is followed by a very strongly method bulbroytests. Repeated administration of pickiess, course that the leadneytests stage is not followed by a ratio of past. An increasing provise is induced, couring flustly a condition similar to approximately.

At this stage, we amount our by made from the home encount, as it is dry, countilling a embedded section, besides decay of the stateous, increases of the extination is to be case, with residual transformation into connection times, and decomposites home formation state.

In noute poissoing symptoms of tenie patenyalophtide while in chronia intentionities assembly, aplantic doesy of the marrow was charred. In our epinion in chronia administration of calchisis animals successful to destruction of the homopoistic system. This view is supported by the fact that we never abserved any sign of extramoduline homopolasis.

Further experiments with solubioin treatment of enimels with neighbors lights engageters simultaneously protected.

About the Broguescy of tabellar Books & Remarks (Austines of Venetury Systems

Among parasitic infections, transmitted to man by entends, the Trickland's epicals (the party Tricklan op.) plays on important role. This parasitic disease is recently degenatly and oth also in such countries where it was of a saw consense before. Whi degenaty was provided by autopoy declings of latent infection, empressing a. g. in the U.S. A. to high by little to 12.5, in the country part of Gt. Behain to 18.6 are east, of the provided on

Grubs of triskinsks were first frund in Mangary by Generich in 1807. Subsequently everal papers were published on triskinsks in the Sving and in autopey material. In 1806 is best if persons had triskinskeds and 5 of them deceared, and in 1800 in Sauntal Supp of leased present three died. March 1950, in Urbut, after having taken wild hear's enough if Sections were observed. In the assenge, haven of triskinsks were demonstrated. December 1900 he in Urbut through particular meet and energy of onto 5 further discuss comment. In most of accesses grate were demonstrated in a great member. A hosper of the found, in the quity DSA, shot a wild review; this against was the cause of infantion in the founds consequently the founds are next was easen by the hospers demonstrated profess.

In 1961, in Selpétenján, after partoling autor causage, é papeus veus cheuvest afficiel prist trichinalises. The causage was brught on the appu market of Debassus from an antonous fromos. In the courage larvas were demonstrated.

Taking into consideration the reported cases, frequency of trickinglises in higher in Bungary than commonly supposed. Cases with but slight symptoms are randy diagnosticed, thus bequency in realityis call higher. In operatio, alight cases symptoms are regarded as due to most princing, typhesid fever, theometicm, etc., the symptoms cosmitting these cheerved in tricking

The total frequency of the disease is not boroup. In order to obtain a dear enrug rould be necessary:

29 Arts Marphaners

1. to examine mucculature of autopas material after arteficial digestion to prove this assesses of grube of trickmellar;

2. to institute a central regatty of clinically diagnosticed cases in the Ministry of Realth, Ministry of Agriculture and at the Institute of Veterinary Hygiene

3, to enumine the frequency of infections in domesticated and tree living carrivorious mimals. After having performed the required studies, if one should still find a high index of infectiveness, control measures are to be instituted in order to prevent infections in man.

Eastmophilic passamenia: A. Véassi. (Hospital of the Susheles Street. Budapost.)

The chine at aspect of cosinophilic pneumotta is discussed, firstly described by Lights as a clight, transitory infiltration of the lungs, accompanied by a marked cosinophilia. Subsequently other reports were published, the discuss was mostly honigs, and thus histological maximum were restricted to few lethal cases. The cause of decease was found to be an alloigh chack, and persection andoes generalisate. Some authors mention parasits in the househ is connection with the discuss.

No case is reported in which death was caused by extensive infiltration of the lung, interfering with its respiratory function. A case of a female of 16 years is reported here, where death occurred after a disease of a fertnight by massive pulmonary infiltration. In the causes of the disease, estimophilic counts up to 50 for over were constantly stated, in the bland-circulation X-rays revealed the progress of the pulmonary inditration. In anappy, the finding in the lungs was resembling that of bronchopocuments, difficulty by a strong yellow color. Histologically, in the alveoli slight amounts of estone annulate were found, a slight number of desquamated epithelia, headen a great number of estimophilis lusheeytes. Some alveoli were full of the latter. Kommophishe colis were found in the liver in the intendabar commortive times and among the tenberrior in the parametermal life were, a great number of estimophiles was found. Hone marrow and state hill were, the option, a great number of estimophiles was found. Hone marrow and state hill were, the option, a great number of estimophiles was found. Hone marrow and state hill were, the option, a great number of estimophiles was found. Hone marrow and state hill were thickness, between the different layers estimophiles were seen too. The appearance was startingly resembling to periarterlities inclose, heaven the hing and option. Accuric bumbelentials was not found in the howels: and no accuric larvae outil be demonstrated in histological appelience of the lungs.

The problem of stickegy is briefly discussed finally. An allergic origin seems to be probable though some facts are contradictory. Diffuse vaccular involvement is observed; the lung amount be regarded — though decease occurredly respiratory insufficiency—as the distillution, dues cosmophiles were to be seen in aboundance in other organs too. The question is discussed whether the few hasteris found in the longs can be regarded as the cause of the distant and whather the presence of parasites in the bowds is a prerequisite of this allmost.

Antechtuneus Air Rushely : L. Tumbelo. (Department of Forence Medicine of the University in Budapast.)
No manucript received.

A Contribution to the Surgical Anatomy of the Vertebral Column : B. Sonneys. (Department of Anatomy of the University in Budapest.)

The problem of introspongious discus hernior and their formation has been enaminable. Bloom harder are most frequently observed in the lumber part of the vertebral estume; in the flagsation of degenerations and transmite phenomenous they play a considerable role. Stream two quested upon the upper and lower cartilagineous surface of the isolated vertebras of Bi quadrana by and of a self-constructed device. Lower surfaces are essentially more resistant to stream, than the upper cardiates. This observation corresponds with the statement of Languidana (1875). In his opinion the cause of this phenomenon is the more marked trabecular structure on the lump surfaces, X-ray examinations revealed a more selecutic structure in this area. An increasing resistance was observed from vertebra I to BII, but it diminishes in vertebra IV. The formy surface of vertebra resists forces by 10 kg more than the upper; this surface in this must realistant of the cautes lumbar-vertebral release. It is a clinically well known fact, that degenerative signs are mostly observed in the two lower lumber vertebrae and in their intervertebral cartaing. Under the effect of lumbar lordonic vertebrae IV and V are bearing the substantial weight in a most inconvenient position (inclining angle of 15 - 30°). The three lawer discusses perform a flexion-extension movement of 90° from the total of 70°. This is the guide-

hery region of discus bernia formation. Vertebras of jeveniles are more resistant; these of make more resistant, than of make. This agrees with several X-any facilitys and with Galley; inverteines, facing the lensiter vertebral estames of familia more developed (by 1/2); then make. Mides were decementated aboving the horizontal and grees actions of discuss, the two structure of the annales flavors and master- and miscompical appearance of themse makes. Station were committed in collaboration with S. Forts (ampens) and Z. faith (ampens) to the factories. The familiar conduction deven, is that in formation of matters polyters business the of deparameter presented in each deven, is that in formation of matters polyters business the of deparameter presented for an accordance of the despitation and galley and R. famous, (Reparameter of Ameters), Threshops and Radorating of the University in Sugar.)

The velocity of the Registration of Ameters, Britishing and Radorating of the University in Sugar.)

The velocity of the Calley and the day, using an against despitation of the dead gratic production of the accordance of the appearance of the appearance of the supportant with the total manufacture of the head of the total matters and the polyte picks, in companion with the total manufacture of the head of the factors of the factors. It is a considered to the factors of the

According to the authors' epitates there date purely conditions to the first transfer groups.

office impregnation and distribuge of themses A. Callie, (Separtment of Assessing Message and Harbeystoge of the University in Second.)

The christing effect of drops used in pseuding imprograms (flowing, delegances) perceptury drops) was examined an executation. Furthermore the compounting effect of physical via investigated. A vectors therements in described, designed by orders, for contemps of the parallele imprograms. The cheshing effect of pseudine on histories quantum the executation and executation of the contemps.

If access are used as debydratents of accordance, shelphage is has by 16—30 per concomparison to debydratestics by sid of aboded. Business and authorizestiketed provid to useful intermediary drops, in historical quadrates after debydrates with deather debydraapproximately has then in authorize quadrates. Using particle debydrates, mandy through the ways obtained. But reads were observed after funding in f per case, formatically a historization in a content and with a substantial for the state of the sta

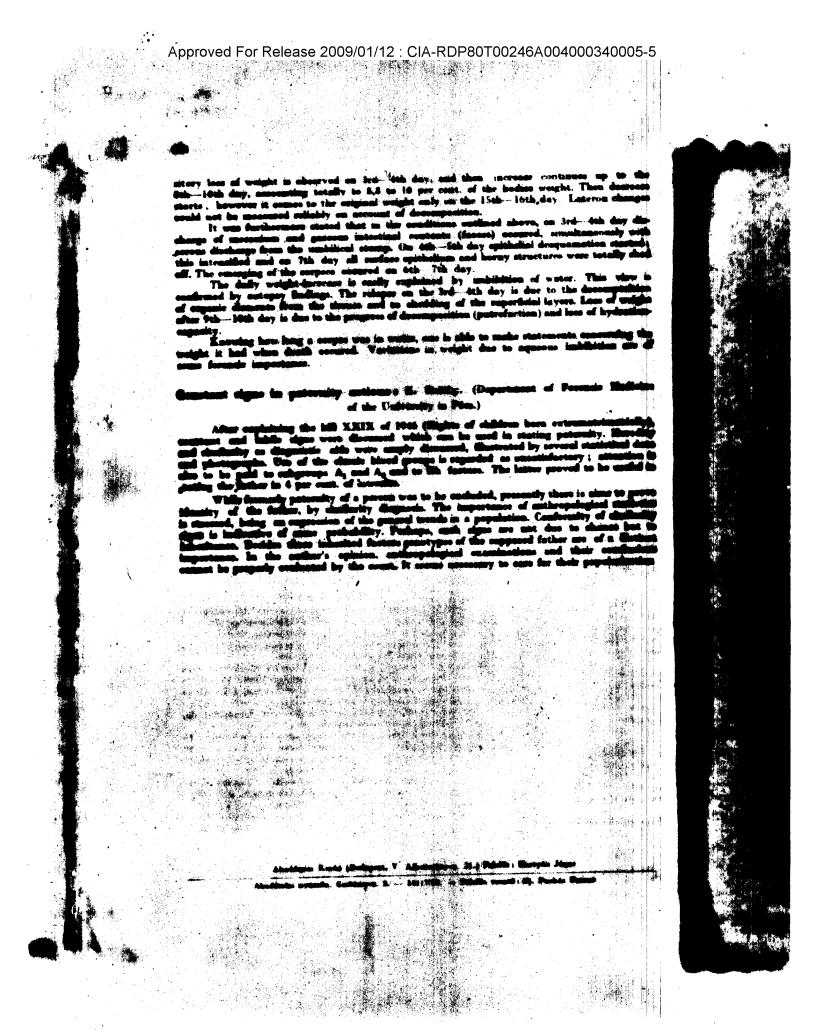
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